

4569

JOURNAL OF THE INSTITUTION OF CIVIL ENGINEERS



MAY 26 1938

VOLUME 5. 1936-37

LIBRARY

PORTLAND CEMENT ASSOCIATION

33 West Grand Avenue
CHICAGO, ILL.

LONDON

Published by The Institution
GREAT GEORGE STREET, S.W.1

(The right of Publication and Translation is reserved)

620.6
In 8
v. 5

MAY 20 1938

LIBRARY

CEMENT ASSOCIATION

IN THE CITY OF LONDON

1938-41

LIBRARY

CEMENT ASSOCIATION

JOURNAL OF THE INSTITUTION OF CIVIL ENGINEERS

Volume 5. 1936-37
February, March and April, 1937

CONTENTS

	Page
ORDINARY MEETING : 15 December, 1936	1
Transfers and Admissions	1
“THE SECOND-STAGE DEVELOPMENT OF THE LOCHABER WATER-POWER SCHEME.” * A. H. Naylor	3
ORDINARY MEETING : 22 December, 1936	88
ORDINARY MEETING : 12 January, 1937	89
Elections	89
“PRE-STRESSING BRIDGE GIRDERS.” * H. J. Nichols	91
“FLUCTUATING LOADS IN SLEEVE BEARINGS.” Prof. H. W. Swift	161
“STRESS-DETERMINATION FOR A THREE-DIMENSIONAL RIGID- JOINTED FRAMEWORK BY THE METHOD OF SYSTEMATIC RE- LAXATION OF CONSTRAINTS.” J. C. Richards. With a foreword by Prof. R. V. Southwell	196
ENGINEERING RESEARCH	217
The Institution Research Committee	217
Joint Sub-Committee on Special Cements: Report on Special Cements for Mass-Concrete Structures and their Specification. F. M. Lea	217
Research Work in Engineering at Woolwich Polytechnic, January, 1937	229
Report of the Building Research Board for the year 1935	230
Notes on Research Publications	232
Obituary : Sir Brodie Henderson	239
ORDINARY MEETING : 26 January, 1937	241
Transfers and Admissions	241
“THE SALONIKA PLAIN RECLAMATION-WORKS.” * B. W. Huntsman	243
“THE LAKE COPAIS, BOEOTIA, GREECE: ITS DRAINAGE AND DEVELOPMENT.” * A. J. Dean	287
ORDINARY MEETING : 9 February, 1937	317
Elections	317
“FUNDAMENTAL RESEARCH ON THE APPLICATION OF VIBRATION TO THE PRE-CASTING OF CONCRETE.” * D. A. Stewart	318

* Correspondence on these Papers appears in the October 1937 Journal, and is included in Volume 6.

	Page
ORDINARY MEETING : 16 February, 1937	349
" MODERN DEVELOPMENTS IN BROADCASTING TRANS- MISSION AND TELEVISION." Sir Noel Ashbridge	349
JOINT MEETING : 11 February, 1937	401
" THE CONSTRUCTION OF LARGE MODERN WATER DAMS."	
A. Coyne	401
" FLOOD-HYDROGRAPHS." * B. D. Richards	405
" JETTY REPAIRS ON THE RIVER THAMES." H. M. Gorringe	432
ENGINEERING RESEARCH	435
The Institution Research Committee	435
Joint Sub-Committee on Vibrated Concrete	435
Research Work in Engineering at Victoria University, Manchester, February, 1937	450
Department of Scientific and Industrial Research : Report for the year 1935-36	451
Notes on Research Publications	453
ORDINARY MEETING : 23 February, 1937	461
Elections and Admissions	461
" WEST MIDDLESEX MAIN DRAINAGE." * D. M. Watson	463
ORDINARY MEETING : 1 March, 1937	618
ORDINARY MEETING : 9 March, 1937	619
Elections	619
" WELDED JOINTS IN PRESSURE-VESSELS." * S. F. Dorey	621
ORDINARY MEETING : 16 March, 1937	687
" KINCARDINE-ON-FORTH BRIDGE." * J. Guthrie Brown	687
JOINT MEETING : 2 March, 1937	771
SYMPOSIUM DEALING WITH RESEARCH IN CONNEXION WITH MOTOR VEHICLES :—	
" The Motor Vehicle." C. G. Williams	771
" Fuels and Lubricants." F. H. Garner	776
" Materials—With Special Reference to Steel."	
T. Swinden	778
" THE NORTH BIHAR GROUP OF THE RIVERS AND WATERWAYS OF THE GANGETIC PLAIN BEFORE AND AFTER THE EARTH- QUAKE OF THE 15TH JANUARY, 1934." F. C. Temple	780
ENGINEERING RESEARCH	782
Deterioration of Structures in Sea-Water	782
The Institution Research Committee	783
Joint Committee on Simply-Supported Steel Bridges	783
Report of the Water Pollution Research Board for the year ended 30th June, 1936	784
The British Electrical and Allied Industries Research Association	785
Notes on Research Publications	787
Obituary : Sir John Aspinall	795

* Correspondence on these Papers appears in the October 1937 Journal, and is included in Volume 6.